



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Chang et al.**

Serial No.: **09/737,430**

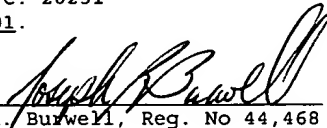
Filing Date: **12/15/2000**

**For: Method and system for
unambiguous addressability in a
distributed application framework in
which duplicate network addresses
exist across multiple customer
networks**

§ Group Art Unit: **2153**

§ Examiner: **Unknown**

§ Attorney Docket No.: **AUS9-2000-0698-US1**

<p style="text-align: center;"><u>Certificate of Mailing</u> <u>Under 37 C.F.R. § 1.8(a)</u></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on <u>May 30, 2001</u>.</p> <p>By:  Joseph R. Burwell, Reg. No 44,468</p>

LETTER TO OFFICIAL DRAFTSPERSON

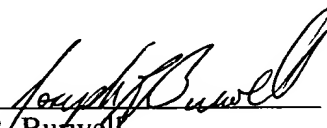
Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Submitted herewith are formal drawings (12 sheets) for the above-identified application.

DATE: May 30, 2001

Respectfully submitted,



Joseph R. Burwell
Reg. No. 44,468
ATTORNEY FOR APPLICANT

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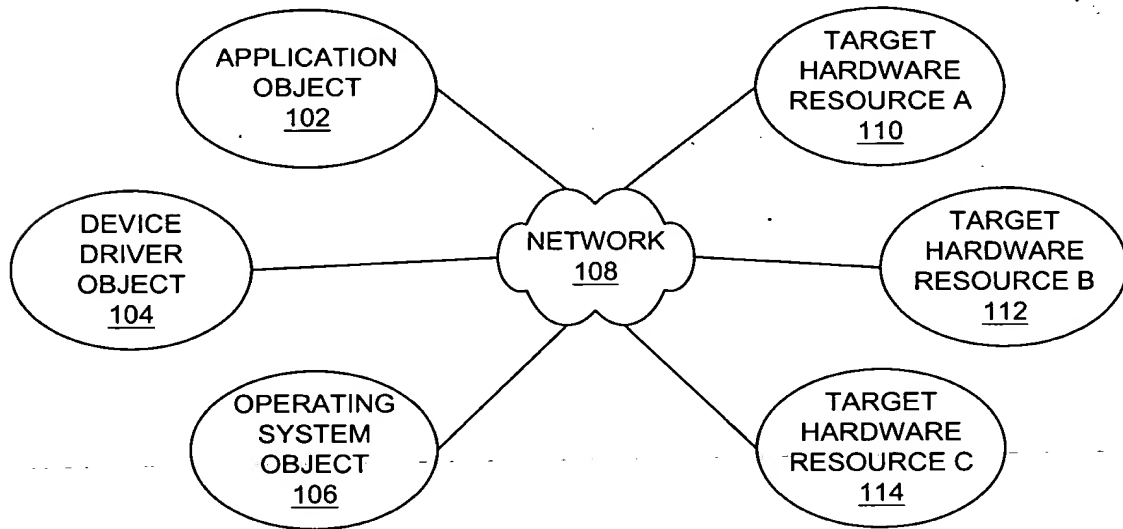


FIG. 1A
(PRIOR ART)

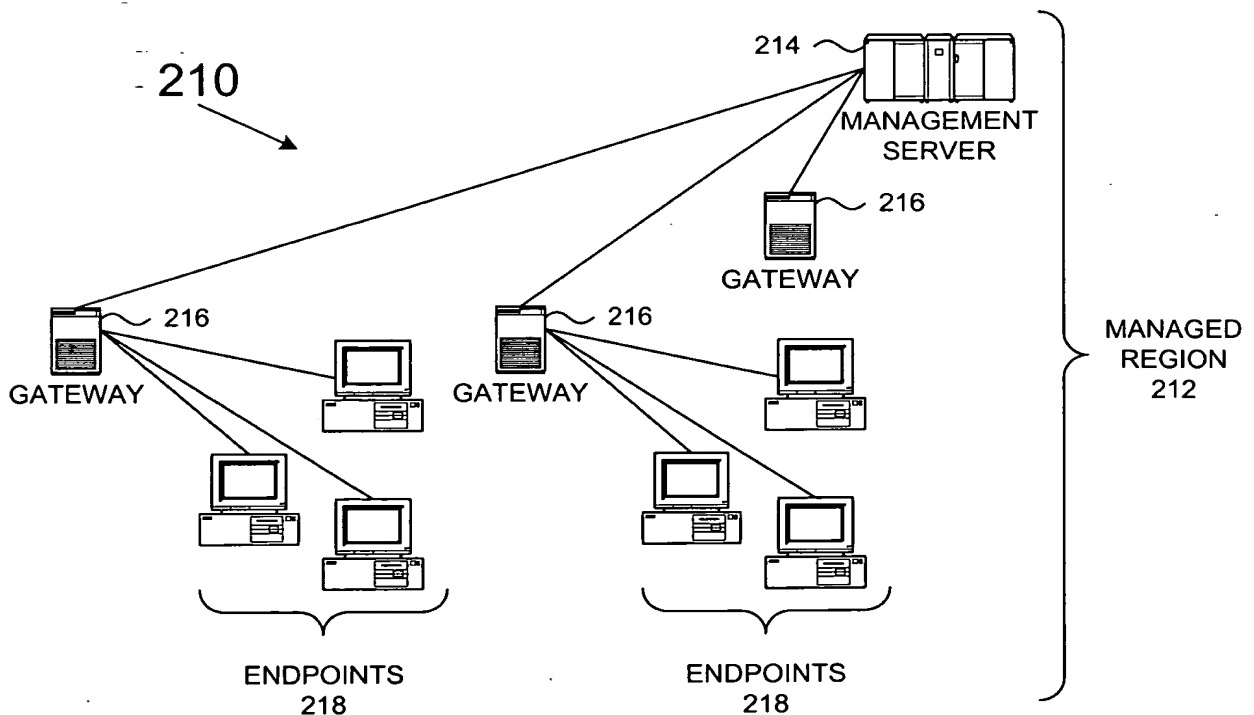


FIG. 2A

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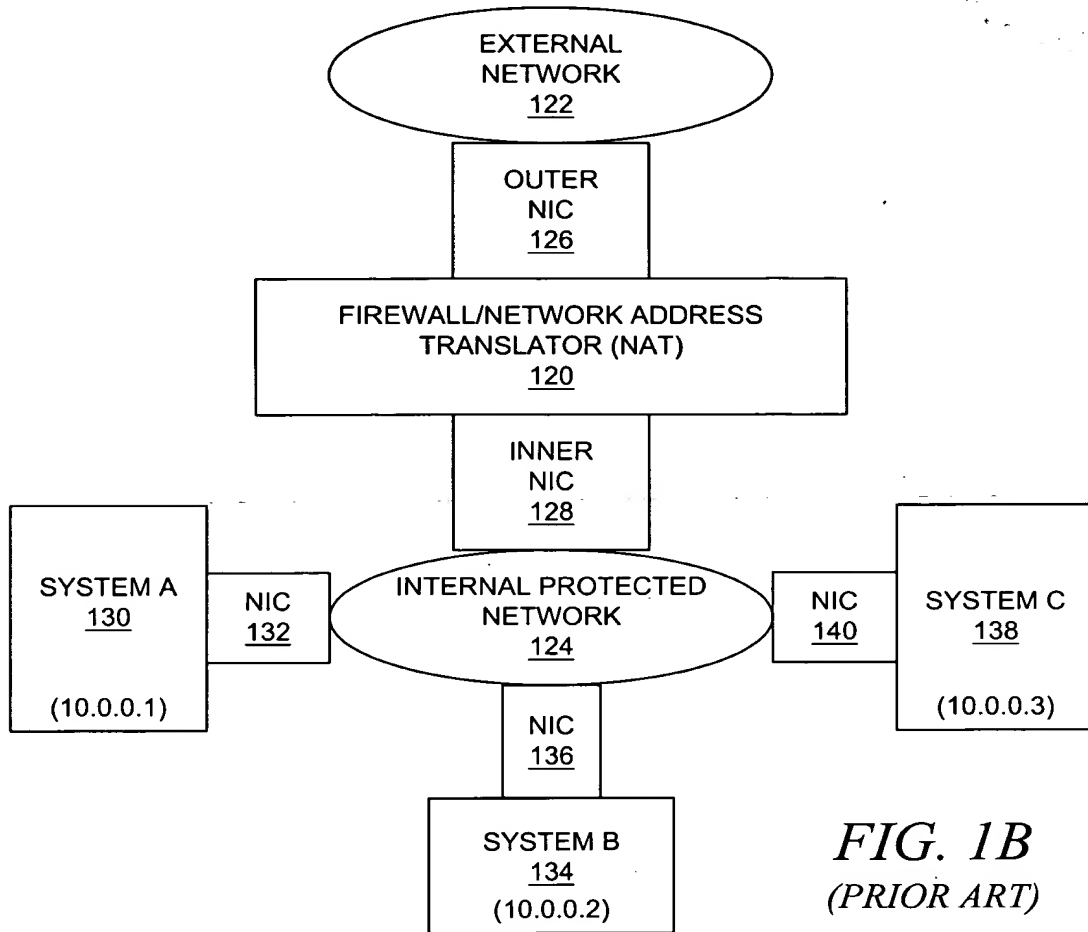


FIG. 1B
(PRIOR ART)

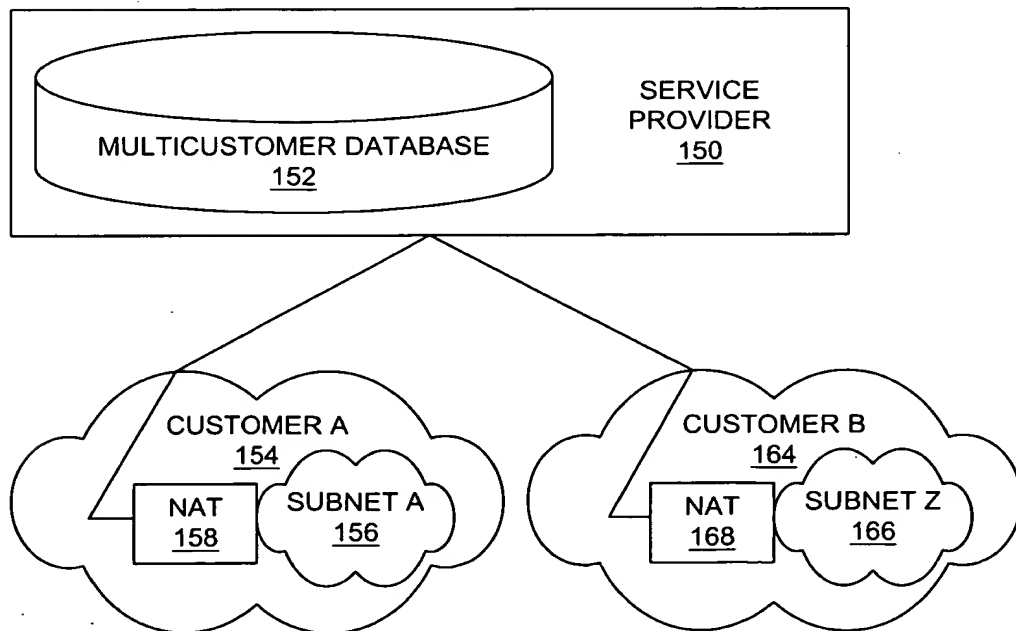


FIG. 1C

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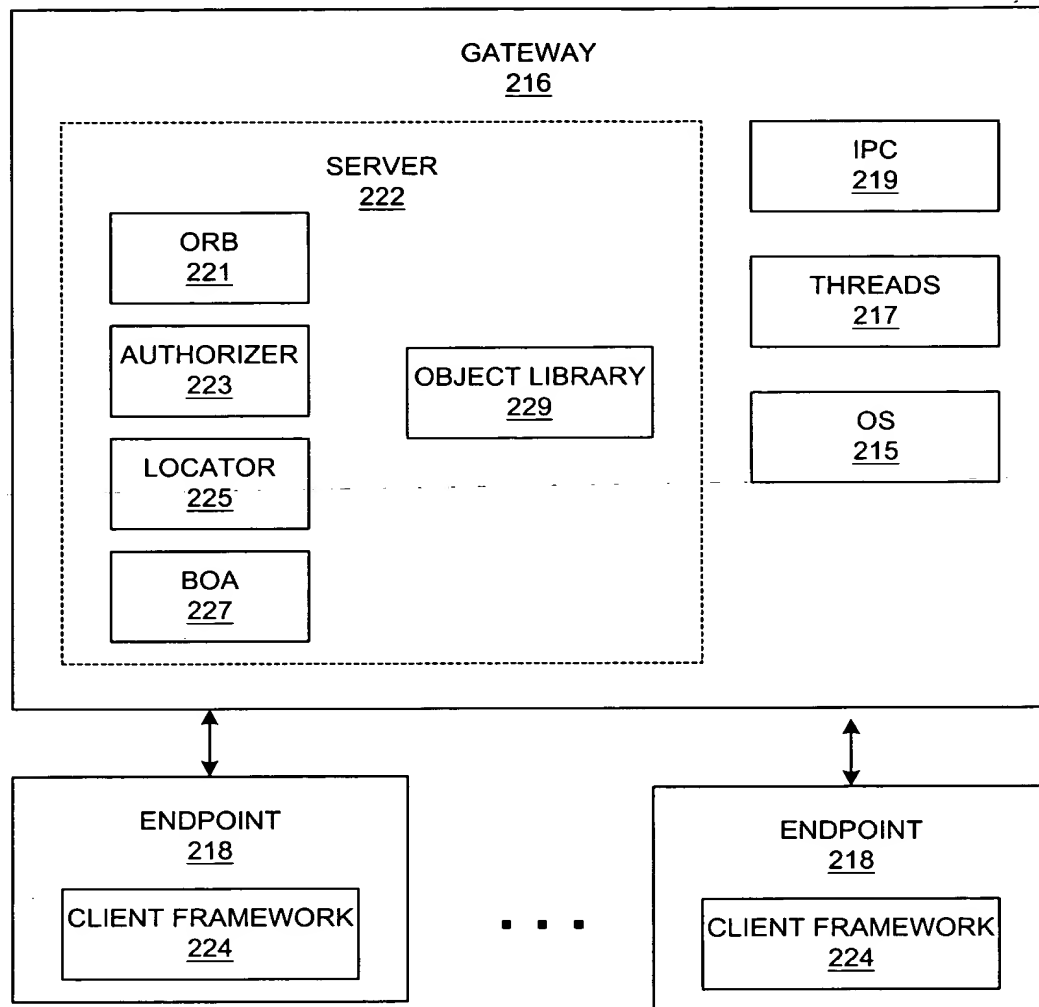


FIG. 2B

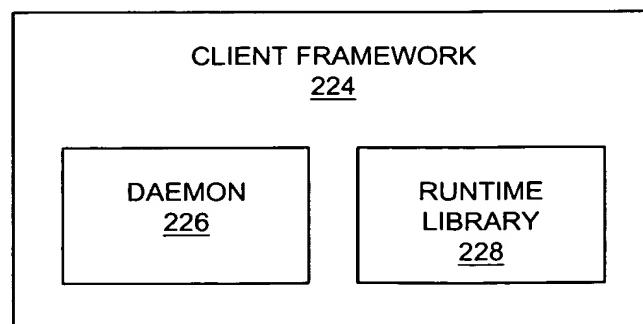


FIG. 2C

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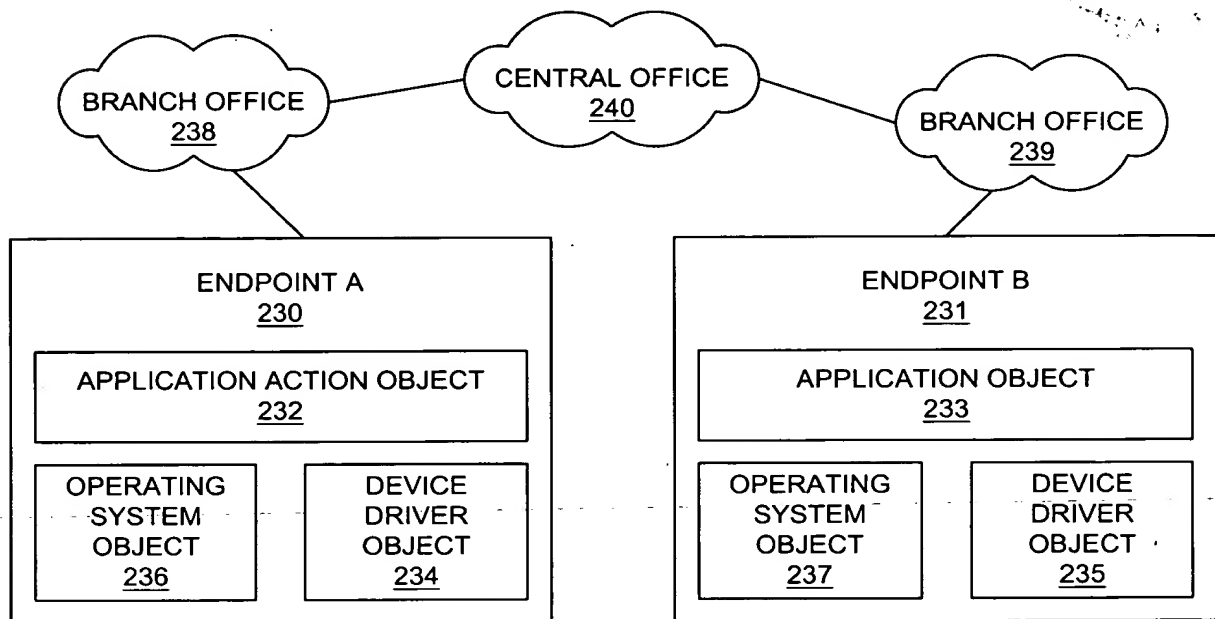


FIG. 2D

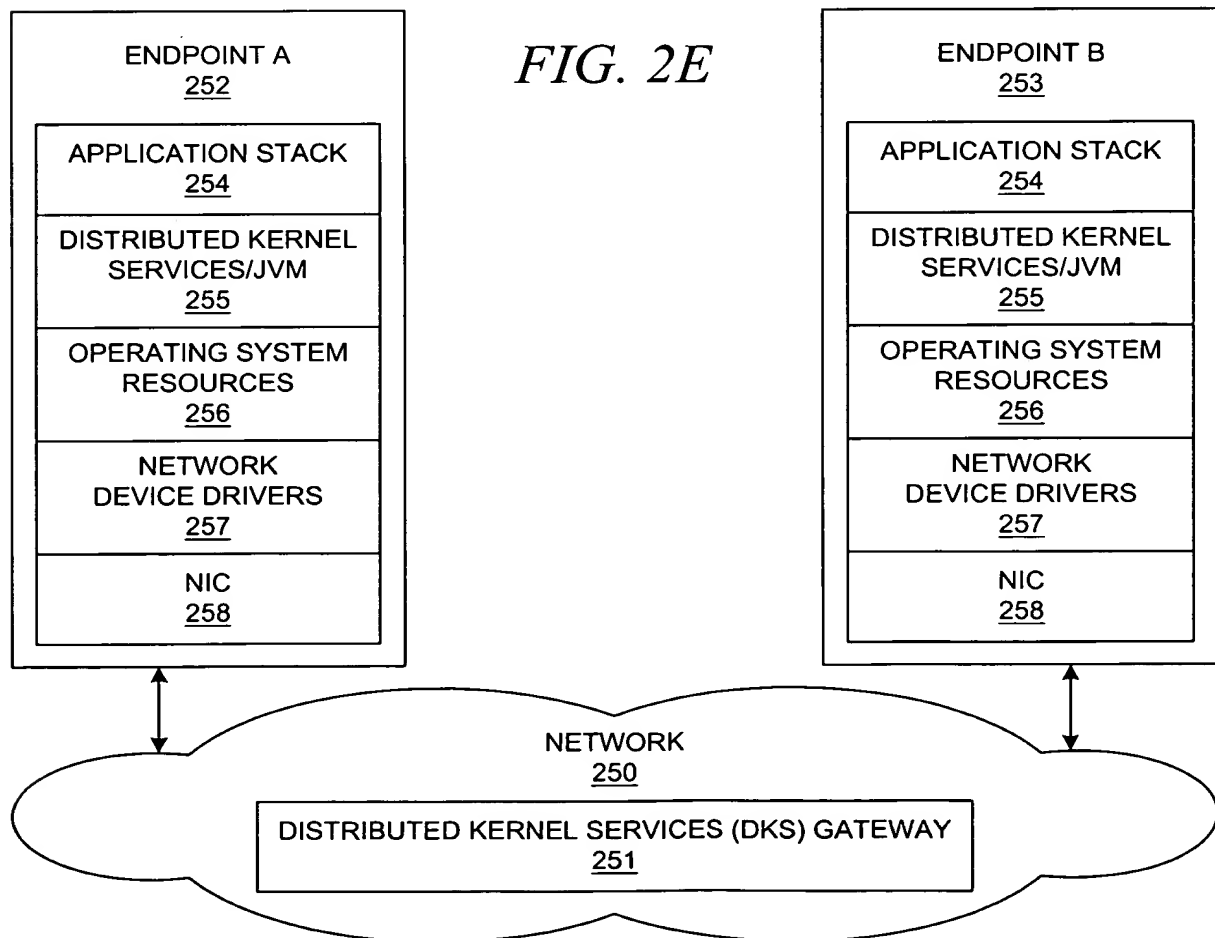


FIG. 2E

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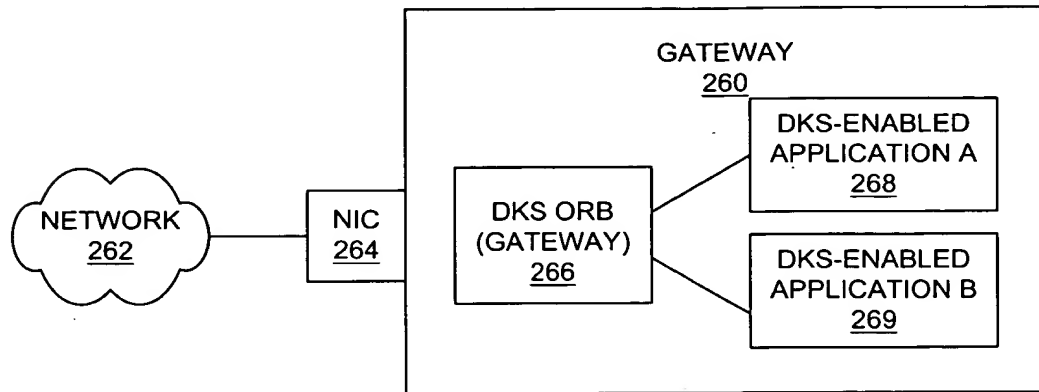


FIG. 2F

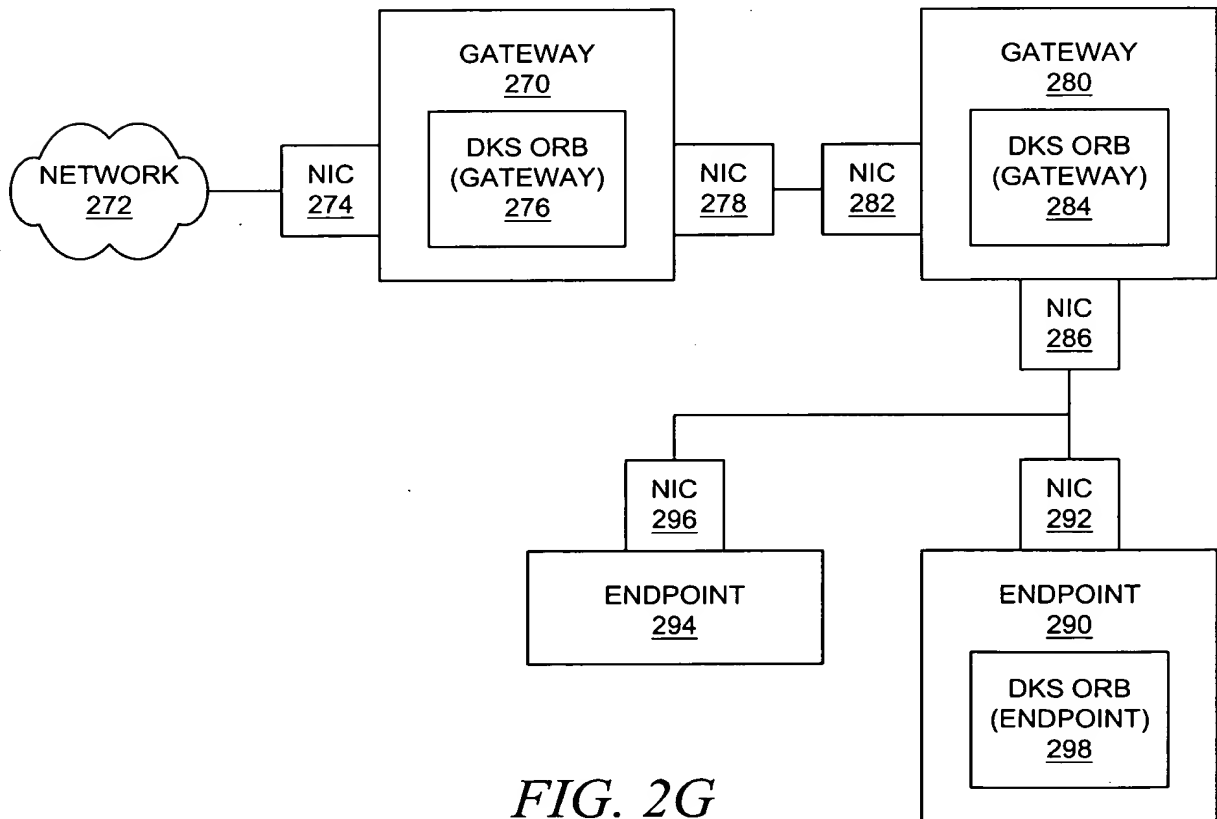


FIG. 2G

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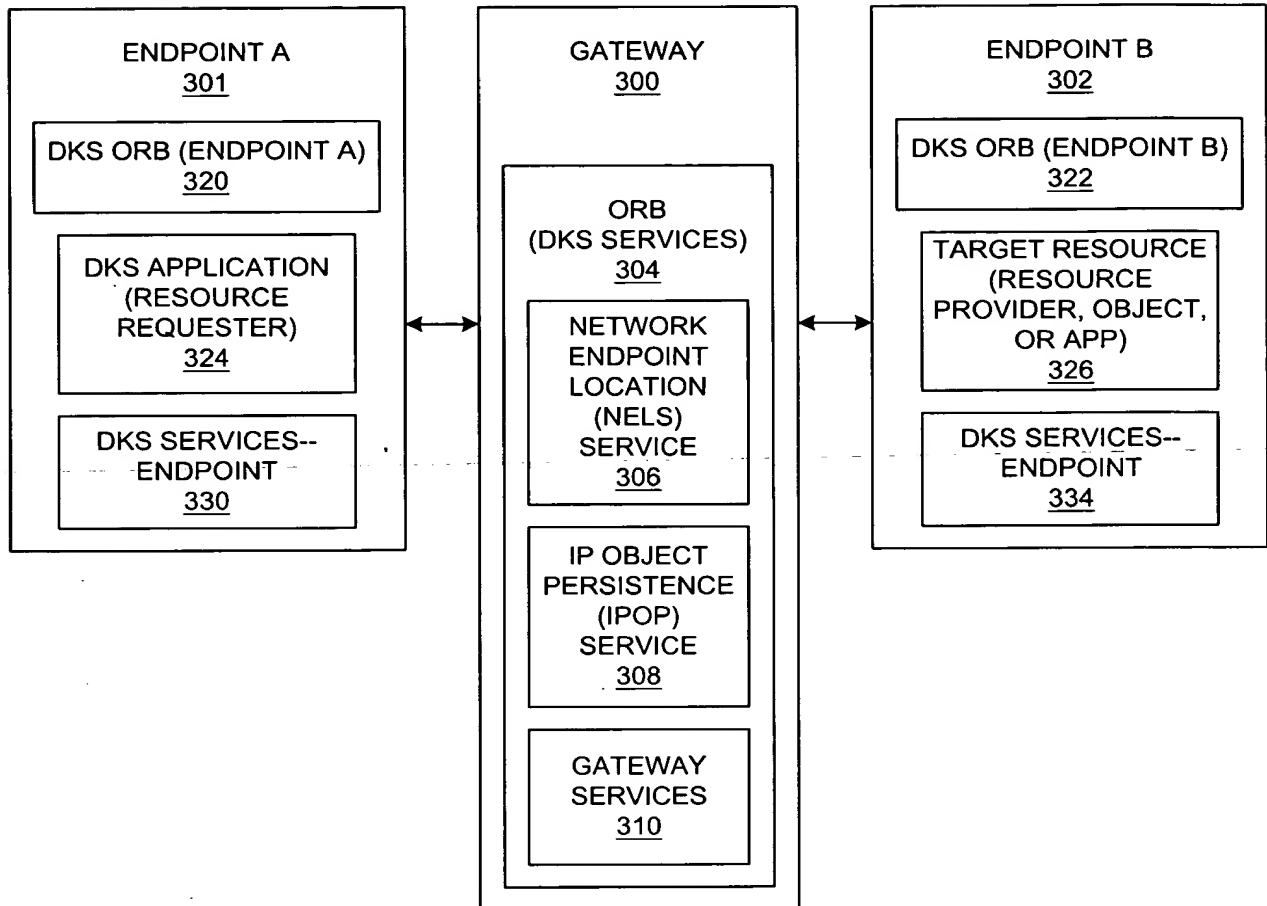


FIG. 3

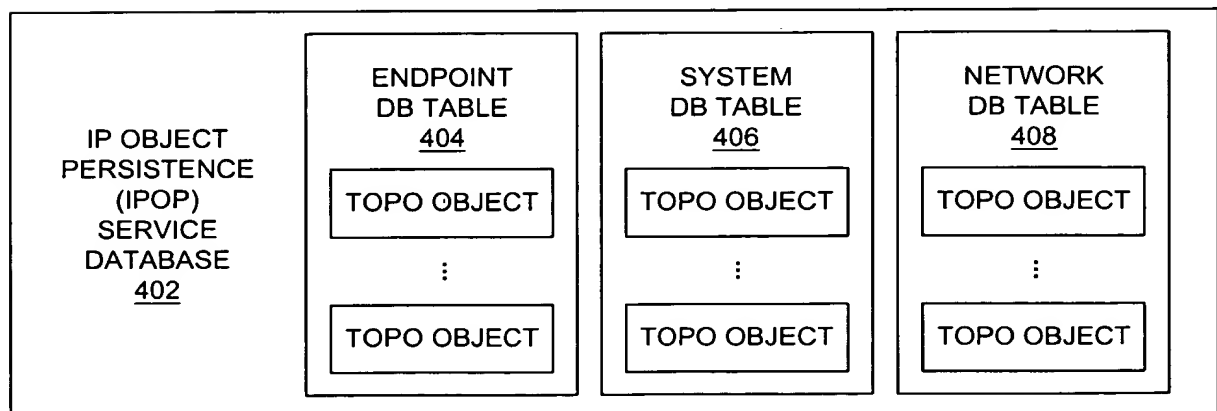


FIG. 4

Method and system for unambiguous addressability in a distributed application framework
in which duplicate network addresses exist across multiple customer networks

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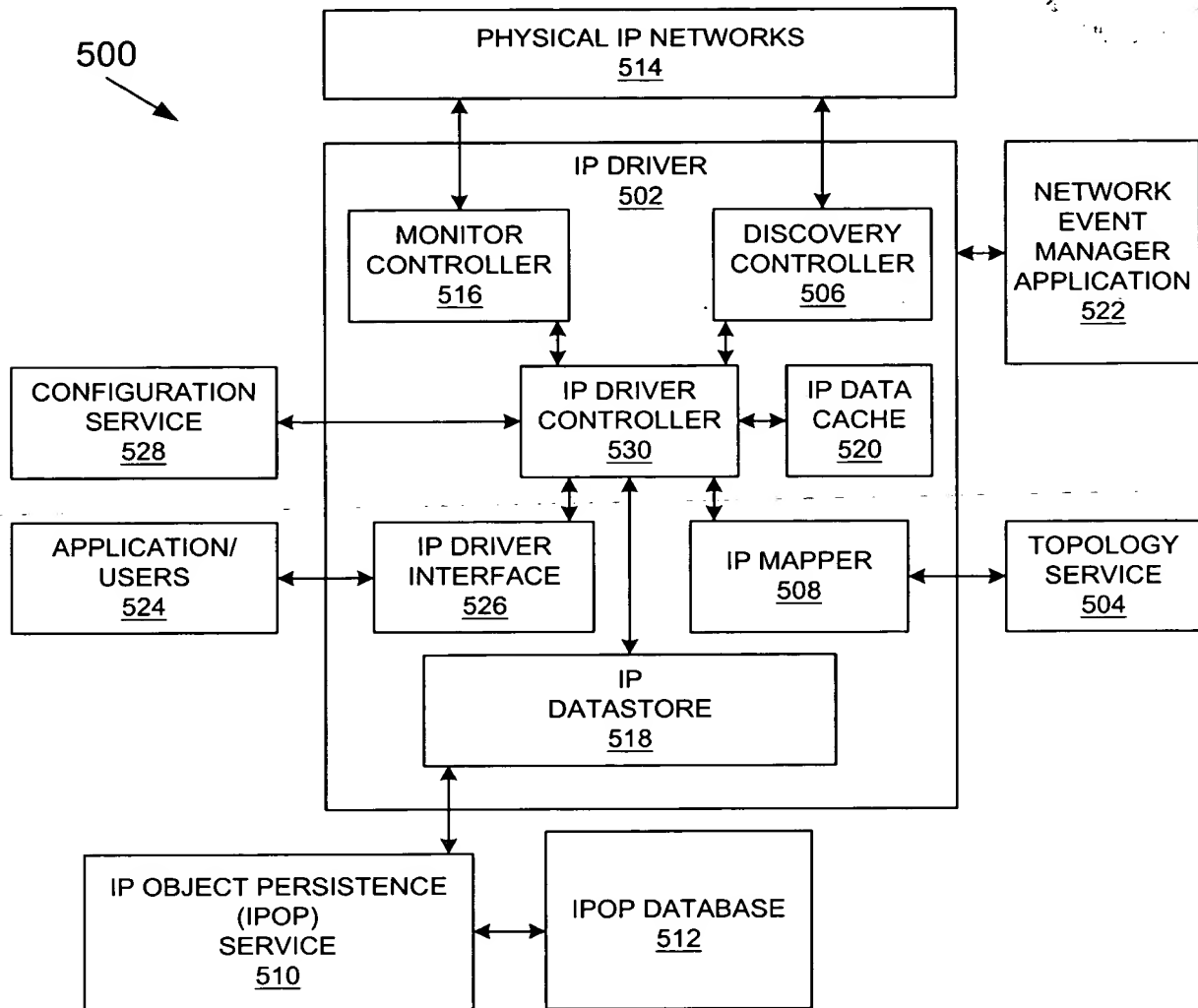


FIG. 5A

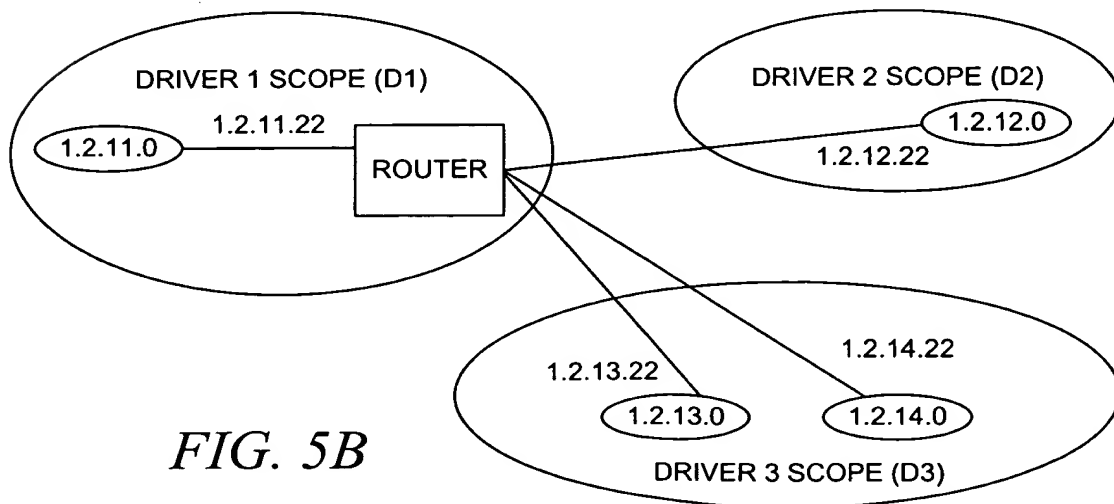


FIG. 5B

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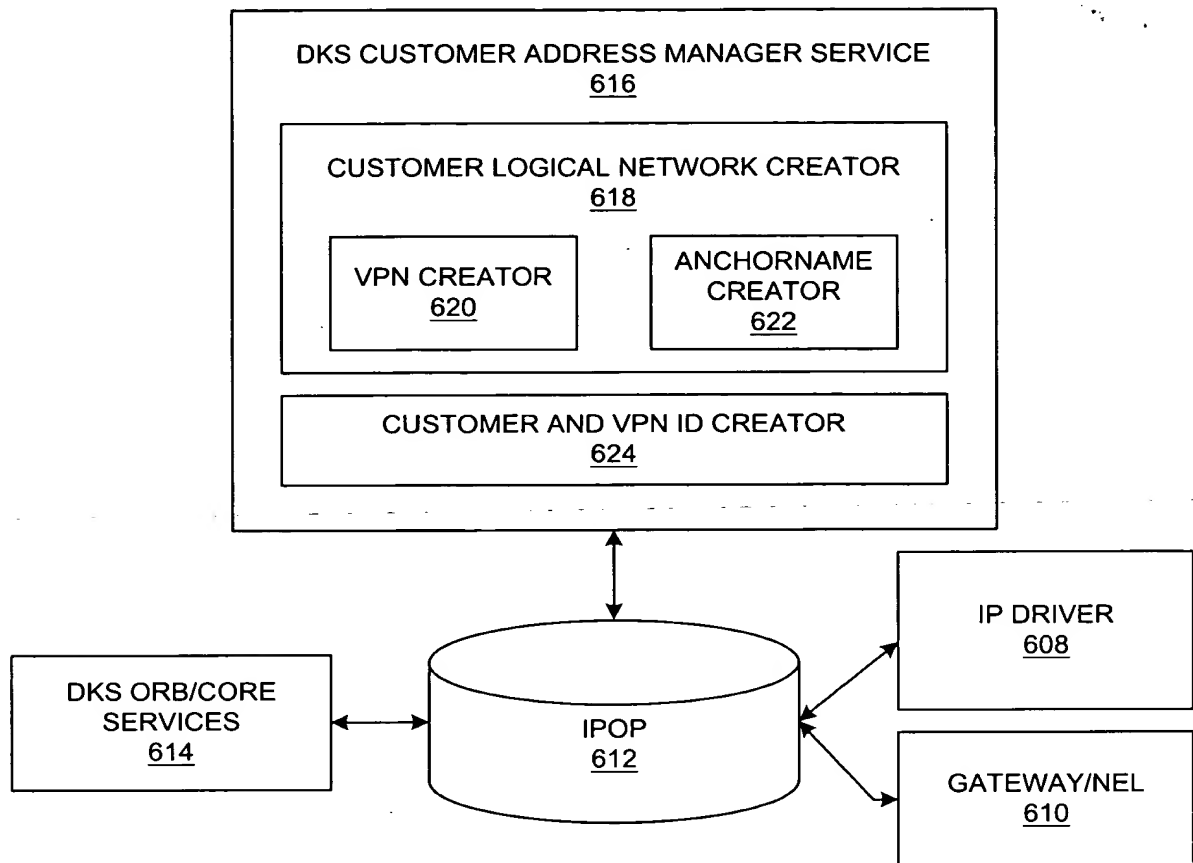


FIG. 6A

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Network Management Application

NETWORKS REQUIRING VPN CREATION--DUPLICATE ADDRESSES EXIST

PHYSICAL NETWORK ADDRESS: 10.7.205.103 ~ 852

CUSTOMER ANCHORNAME: AUSTIN\BLDG1 ~ 856

VPN ID: ~ 870

PHYSICAL NETWORK ADDRESS: 10.7.205.103 ~ 854

CUSTOMER ANCHORNAME: AUSTIN\BLDG2 ~ 858

VPN ID: ~ 872

878 ☒ CHANGE VPN ID FOR ENTIRE SCOPE

SET ~ 874

876 ~ CLEAR

FIG. 8

Method and system for unambiguous addressability in a distributed application framework
in which duplicate network addresses exist across multiple customer networks

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```

Public Class IPActionObject {

    Endpoint sourceEP;
    Endpoint targetEP;

    // CONSTRUCTOR
    IPActionObject( Endpoint targetEP, Endpoint sourceEP ) {
        .
        .
        .
    }
    VOID performAction( ) // EXECUTES ACTION METHOD
}

```

FIG. 6B

```

Public Class Endpoint {

    // public variables
    long EPObjectID; // ID to object (both private and public network addresses)
    InetAddress EPIPAddress; // physical network address (private or public)
    long EPVPN; // virtual private network ID

    //get/set of variables
    public long getObjectID( ) { ... }
    public InetAddress getPAddress( ) { ... }
    public long getVPN( ) { ... }

}

```

FIG. 6C

```

Public Class EndpointCustomer extends Endpoint {

    public getVPNGW( ) {
        //gets the only gateway which has access to a particular private network
        .
        .
        .
    }
    //private variables only set/accessed by EP creator IPOP
    long customerHashNumber;
    String customerName;
    String customerAnchorPath;
    Long objectIDofPrivateGatewayRoute

}

```

FIG. 6D

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Method and system for unambiguous addressability in a distributed application framework
in which duplicate network addresses exist across multiple customer networks

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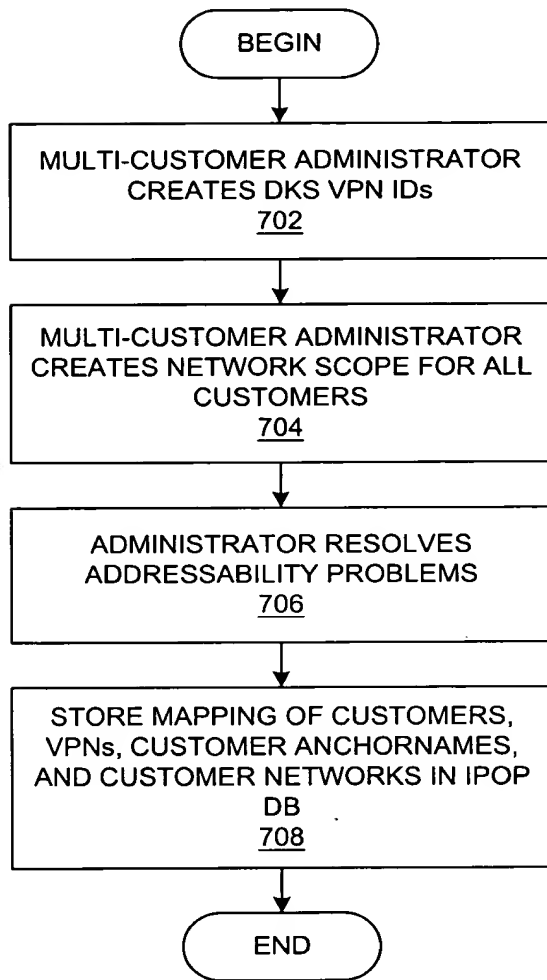


FIG. 7A

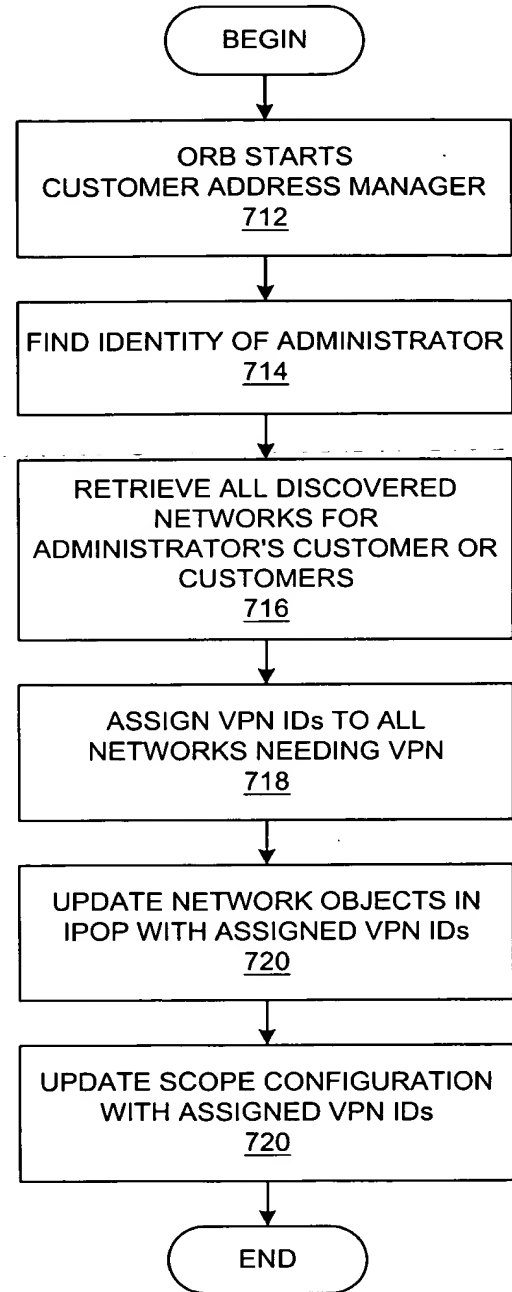


FIG. 7B

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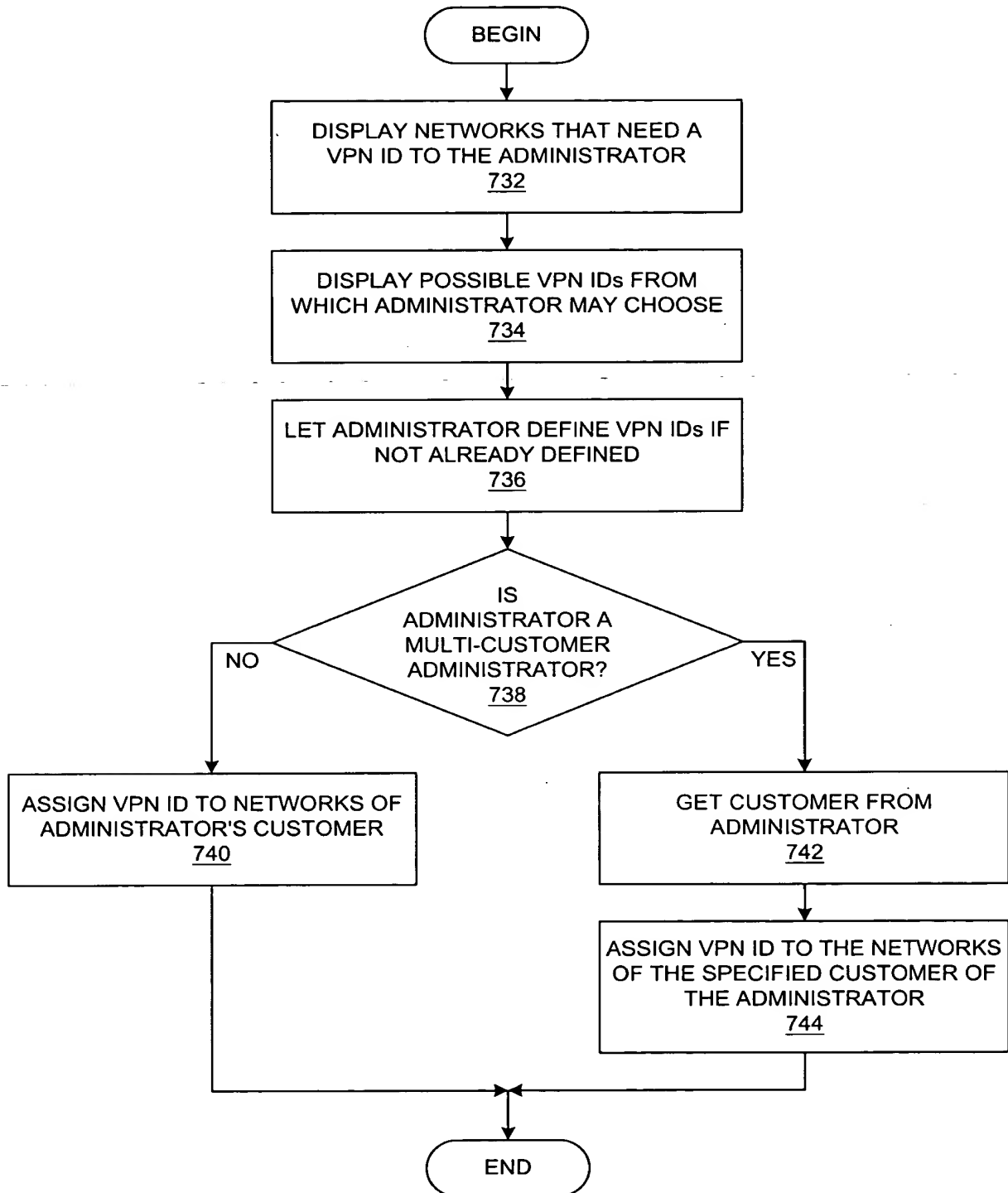


FIG. 7C

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Method and system for unambiguous addressability in a distributed application framework
in which duplicate network addresses exist across multiple customer networks

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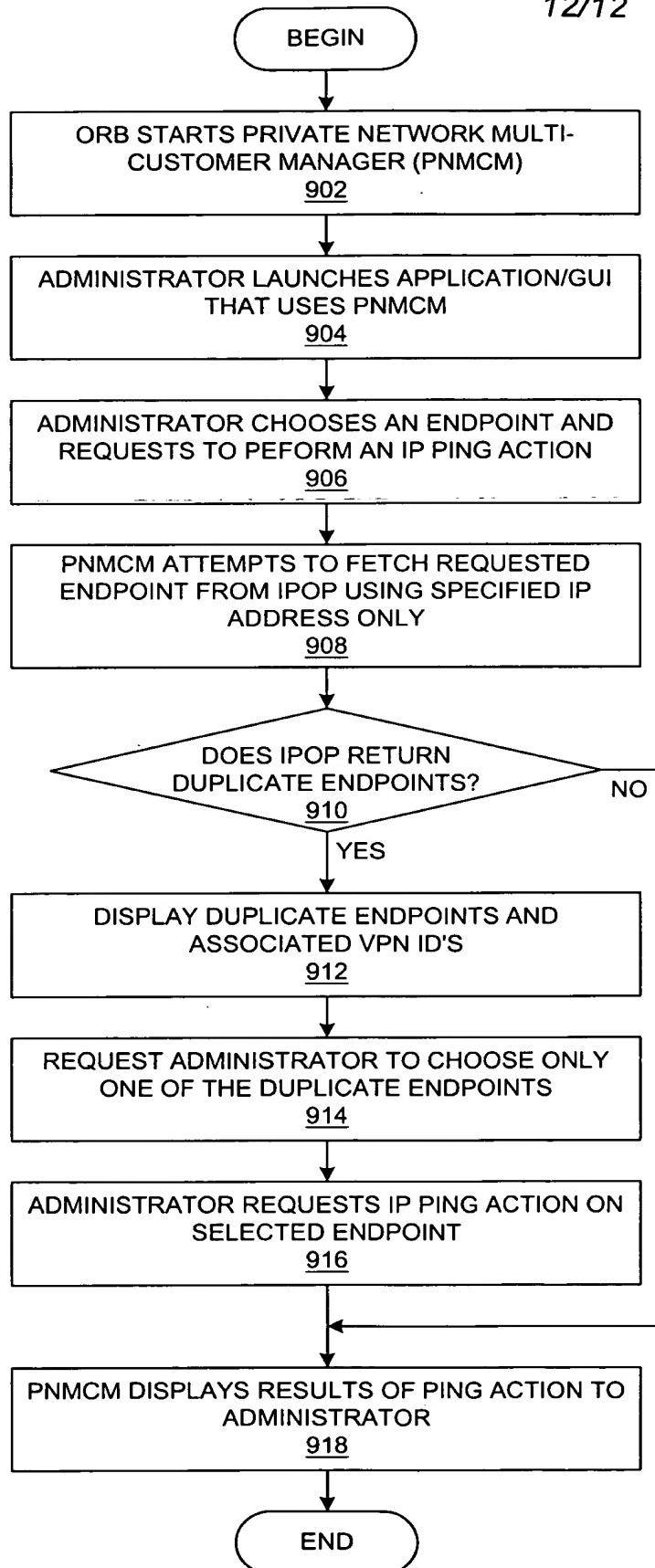


FIG. 9A

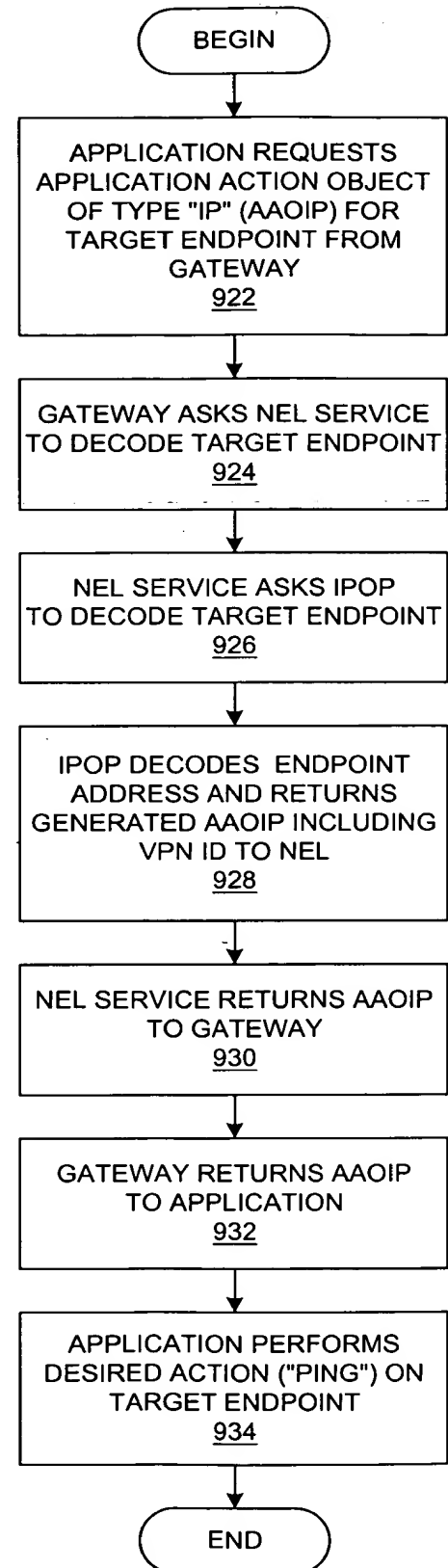


FIG. 9B